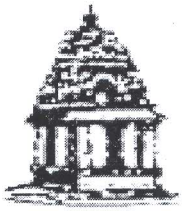

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Improvements to Roads and Drains at Doddachanappa Layout, Raghuram Layout, Kuvempunagara 1st Stage, Valmikinagara in Ward No 11 (Kuvempunagara).*

Job Code:

Estimated Cost: Rs. 99.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: Estimate for Improvements to Roads and Drains at Doddachanappa Layout, Raghuram Layout, Kuvempunagara 1st Stage, Valmikinagara in Ward No 11 (Kuvempunagara).

Estimate Cost: 9900000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2018-19**	Cum							
	CC Road								
	Doddachanappa Layout 1st Cross		1	39.00	4.25	0.15	24.86		
			1	120.00	3.35	0.15	60.30		
	Doddachanappa Layout 2nd Cross		1	45.00	5.00	0.15	33.75		
			1	125.00	3.65	0.15	68.44		
	Doddachanappa Layout 3rd Cross		1	48.00	3.20	0.15	23.04		
			1	115.00	3.65	0.15	62.96		
	Main Road		1	110.00	3.50	0.15	57.75		
	Raghu Ram Layout Cross Road		1	85.00	3.65	0.15	46.54		
			1	35.00	3.65	0.15	19.16		
	Cross Road		1	35.00	3.65	0.15	19.16		
	Drain Desilting								
	Kuvempunagara 1st Stage		2	72.00	0.45	0.45	29.16		
			2	70.00	0.45	0.45	28.35		
			2	108.00	0.45	0.45	43.74		
	Valmikinagara		2	30.00	0.45	0.45	12.15		
			2	64.00	0.45	0.45	25.92		
			2	72.00	0.45	0.45	29.16		
			2	35.00	0.45	0.45	14.18		
	Berm Cutting								
	Kuvempunagara 1st Stage		2	72.00	0.90	0.20	25.92		
			2	70.00	0.90	0.20	25.20		
			2	108.00	0.90	0.20	38.88		
	Valmikinagara		2	30.00	0.90	0.20	10.80		
			2	64.00	0.90	0.20	23.04		
			2	64.00	0.90	0.20	23.04		
			2	35.00	0.90	0.20	12.60		
	Basic Rate	130.00					**758.10**	243.88	**184885.00**
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
	Total	**243.88**							
	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	BS Slab Drain								
	Kuvempunagara 1st Stage		2	72.00		1.35	194.40		
			2	70.00		1.35	189.00		
			2	108.00		1.35	291.60		
			2	30.00		1.35	81.00		
	Valmikinagara		2	64.00		1.35	172.80		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	64.00		1.35	172.80		
			2	35.00		1.35	94.50		
	Basic Rate	105.00					**1196.10**	111.30	**133126.00**
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 25%			Vide Item No. 2			364.81		
	Basic Rate	700.00					**364.81**	742.00	**270689.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
	CC Road								
	Doddachanappa Layout 1st Cross		1	39.00	4.25	0.15	24.86		
			1	120.00	3.35	0.15	60.30		
	Doddachanappa Layout 2nd Cross		1	45.00	5.00	0.15	33.75		
			1	125.00	3.65	0.15	68.44		
	Doddachanappa Layout 3rd Cross		1	48.00	3.20	0.15	23.04		
			1	115.00	3.65	0.15	62.96		
	Main Road		1	110.00	3.50	0.15	57.75		
	Raghu Ram Layout Cross Road		1	85.00	3.65	0.15	46.54		
			1	35.00	3.65	0.15	19.16		
	Cross Road		1	35.00	3.65	0.15	19.16		
	Flagging Course for Drain								
	Kuvempunagara 1st Stage		4	72.00	0.30	0.15	12.96		
			4	70.00	0.30	0.15	12.60		
			4	108.00	0.30	0.15	19.44		
	Valmikinagara		4	30.00	0.30	0.15	5.40		
			4	64.00	0.30	0.15	11.52		
			4	64.00	0.30	0.15	11.52		
			4	35.00	0.30	0.15	6.30		
	Basic Rate	5115.00					**495.71**	5421.90	**2687663.00**
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	Construction of un-reinforced plain cement concrete pavement, using grade concrete M30 over a prepared base with OPC course aggregate at 0.69 cum fine aggregates at 0.46 cum course and fine aggregtes confirming to IS : 383-2016, with superplastisiser @3lts confirming to IS9103-1999 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications **- (with OPC at 360Kg per cum & coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Page No. 176 / Item No. 22.6.1, PWD SR 2018-**	cum							
	CC Road								
	Doddachanappa Layout 1st Cross		1	39.00	4.25	0.15	24.86		
			1	120.00	3.35	0.15	60.30		
	Doddachanappa Layout 2nd Cross		1	45.00	5.00	0.15	33.75		
			1	125.00	3.65	0.15	68.44		
	Doddachanappa Layout 3rd Cross		1	48.00	3.20	0.15	23.04		
			1	115.00	3.65	0.15	62.96		
	Main Road		1	110.00	3.50	0.15	57.75		
	Raghu Ram Layout Cross Road		1	85.00	3.65	0.15	46.54		
			1	35.00	3.65	0.15	19.16		
	Cross Road		1	35.00	3.65	0.15	19.16		
	Basic Rate	4916.00					**415.97**	5210.96	**2167577.00**
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
6	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2,**	Sqm							
	Kuvempunagara 1st Stage		2x2	72.00		0.40	115.20		
			2x2	70.00		0.40	112.00		
			2x2	108.00		0.40	172.80		
	Valmikinagara		2x2	30.00		0.40	48.00		
			2x2	64.00		0.40	102.40		
			2x2	64.00		0.40	102.40		
			2x2	35.00		0.40	56.00		
	Basic Rate	924.00					**708.80**	979.44	**694227.00**
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							
	Kuvempunagara 1st Stage		2	72.00	0.90		129.60		
			2	70.00	0.90		126.00		
			2	108.00	0.90		194.40		
	Valmikinagara		2	30.00	0.90		54.00		
			2	64.00	0.90		115.20		
			2	64.00	0.90		115.20		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	35.00	0.90		63.00		
							797.40	2337.00	**1863524.00**
8	KSRRB M2100-15.2. Plain /Reinforcement Cement Concrete M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, in Open Foundation complete as per Drawing and Technical Specifications including cost of all materials, labours, HOM curing, form works, scaffolding and centering complete as per specifications **(Page No. 222, Item No. 27.27, PWD SR 2018-19**	Cum							
	Vent								
	Kuvempunagara 1st Stage		2	72.00	0.45	0.10	6.48		
			2	70.00	0.45	0.10	6.30		
	Valmikinagara		2	108.00	0.45	0.10	9.72		
			2	30.00	0.45	0.10	2.70		
			2	64.00	0.45	0.10	5.76		
			2	64.00	0.45	0.10	5.76		
			2	35.00	0.45	0.10	3.15		
	Coping								
	Kuvempunagara 1st Stage		2x2	72.00	0.20	0.10	5.76		
			2x2	70.00	0.20	0.10	5.60		
	Valmikinagara		2x2	108.00	0.20	0.10	8.64		
			2x2	30.00	0.20	0.10	2.40		
			2x2	64.00	0.20	0.10	5.12		
			2x2	64.00	0.20	0.10	5.12		
			2x2	35.00	0.20	0.10	2.80		
	Basic Rate	4857.00					**75.31**	5148.42	**387728.00**
	Area Weightage @ 6%	291.42							
	Total	**5148.42**							
	Sub Total								**8389419.00**
	GST @ 12%								**1006730.00**
	KRIDL Charges @ 4%								**335577.00**
	DPR Charges @ 1%								**83894.00**
	PMC Charges @ 1%								**83894.00**
	Miscellaneous and other Charges								**486.00**
							Total		**9900000.00**

Technically sanctioned for Rs. 99,00,000/-
Rs in Words NINETY NINE LAKH ONLY
Under P1878
Job Code No 011-20-000095
Registered as SE(Y)/TS/ 18 /2019-20 subject
to conditions contained in enclosed memo
No. 18 /2019-20 Dated: 20/12/2019
20/12/2019
AE/JE TA

ADMINISTRATIVE APPROVAL
Accorded For Rs. 99.00 Lakhs only
Head of A/c P1878,
Ref No. 89/19-20 Dated 21-11-19
#NAME?
AE EE(BTP) 21/11

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division